

## SAFETY DATA SHEET

# 500-RTB

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

*Trade name:* 500-RTB  
*Other names / Synonyms:* 500-RTB  
*Product no.:*  
*Unique formula identifier (UFI):* VPC0-Q0J5-P00R-CR02

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

*Relevant identified uses of the substance or mixture:* Adhesive  
*Uses advised against:* None known.

#### 1.3. Details of the supplier of the safety data sheet

*Company and address:* **Cyanotec Limited**  
 Bay 2, Building 62,  
 Third Avenue,  
 Pensnett Trading Estate,  
 Kingswinford DY6 7XT  
 Tel: +44 (0) 1384 294 753  
 sales@cyanotec.com  
*E-mail:*  
*Revision:* 28/02/2024  
*SDS Version:* 3.0  
*Date of previous version:* 24/08/2023 (2.0)

#### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).  
 See section 4 "First aid measures".

### SECTION 2: HAZARDS IDENTIFICATION

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

#### 2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.  
 Eye Irrit. 2; H319, Causes serious eye irritation.  
 STOT SE 3; H335, May cause respiratory irritation.

#### 2.2. Label elements

*Hazard pictogram(s):*



|                                    |                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Signal word:</i>                | Warning                                                                                                                                                                                                                                                                                                                                    |
| <i>Hazard statement(s):</i>        | Causes skin irritation. (H315)<br>Causes serious eye irritation. (H319)<br>May cause respiratory irritation. (H335)                                                                                                                                                                                                                        |
| <i>Precautionary statement(s):</i> |                                                                                                                                                                                                                                                                                                                                            |
| <i>General:</i>                    | If medical advice is needed, have product container or label at hand. (P101)<br>Keep out of reach of children. (P102)                                                                                                                                                                                                                      |
| <i>Prevention:</i>                 | Wash hands thoroughly after handling. (P264)<br>Wear eye protection/protective gloves. (P280)                                                                                                                                                                                                                                              |
| <i>Response:</i>                   | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)<br>If eye irritation persists: Get medical advice/attention. (P337+P313)                                                                                                                 |
| <i>Storage:</i>                    | Store locked up. (P405)                                                                                                                                                                                                                                                                                                                    |
| <i>Disposal:</i>                   | Dispose of contents/container in accordance with local regulation (P501)                                                                                                                                                                                                                                                                   |
| ▼ <i>Hazardous substances:</i>     | 1,4-dihydroxybenzene;hydroquinone;quinol                                                                                                                                                                                                                                                                                                   |
| <i>Additional labelling:</i>       | UFI: VPC0-Q0J5-P00R-CR02                                                                                                                                                                                                                                                                                                                   |
| <b>2.3. Other hazards</b>          |                                                                                                                                                                                                                                                                                                                                            |
| ▼ <i>Additional warnings:</i>      | This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.<br>This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. |

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

| Product/substance     | Identifiers                                                                     | % w/w  | Classification                                                              | Note |
|-----------------------|---------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------|------|
| ethyl 2-cyanoacrylate | CAS No.: 7085-85-0<br>EC No.: 230-391-5<br>UK-REACH:<br>Index No.: 607-236-00-9 | 80-95% | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335 (SCL: 10.00 %) |      |

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

## Other information

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## SECTION 4: FIRST AID MEASURES

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### 4.1. Description of first aid measures

#### *General information:*

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.  
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### *Inhalation:*

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### *Skin contact:*

IF ON SKIN: Wash with plenty of water and soap.  
Remove contaminated clothing and shoes.  
Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.  
If skin irritation occurs: Get medical advice/attention.

#### *Eye contact:*

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor.  
Continue flushing during transport.

#### *Ingestion:*

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.  
In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

#### *Burns:*

Not applicable.

### 4.2. Most important symptoms and effects, both acute and delayed

Irritation effects: This product contains substances, which may cause irritation upon exposure to

skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

If eye irritation persists: Get medical advice/attention.

#### **Information to medics**

Bring this safety data sheet or the label from this product.

### **SECTION 5: FIREFIGHTING MEASURES**

#### **5.1. Extinguishing media**

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

#### **5.2. Special hazards arising from the substance or mixture**

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Nitrogen oxides (NO<sub>x</sub>)

Carbon oxides (CO / CO<sub>2</sub>)

#### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Avoid inhalation of vapours from spilled material.

Contaminated areas may be slippery.

#### **6.2. ▼ Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

#### **6.3. Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

#### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

#### 7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

*Recommended storage material:*

Always store in containers of the same material as the original container.

*Storage temperature:*

No specific requirements

*Incompatible materials:*

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

ethyl 2-cyanoacrylate

Short term exposure limit (15 minutes) (ppm): 0,3

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 1,5

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.

EH40/2005 Workplace exposure limits (Fourth Edition 2020).

#### DNEL

ethyl 2-cyanoacrylate

| Duration:                                          | Route of exposure: | DNEL:                  |
|----------------------------------------------------|--------------------|------------------------|
| Long term – Local effects - General population     | Inhalation         | 9.25 mg/m <sup>3</sup> |
| Long term – Local effects - Workers                | Inhalation         | 9.25 mg/m <sup>3</sup> |
| Long term – Systemic effects - General population  | Inhalation         | 9.25 mg/m <sup>3</sup> |
| Long term – Systemic effects - Workers             | Inhalation         | 9.25 mg/m <sup>3</sup> |
| Short term – Local effects - General population    | Inhalation         | 9.25 mg/m <sup>3</sup> |
| Short term – Local effects - Workers               | Inhalation         | 9.25 mg/m <sup>3</sup> |
| Short term – Systemic effects - General population | Inhalation         | 9.25 mg/m <sup>3</sup> |
| Short term – Systemic effects - Workers            | Inhalation         | 9.25 mg/m <sup>3</sup> |

#### PNEC

No data available.

## 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

*General recommendations:*

Smoking, drinking and consumption of food is not allowed in the work area.

*Exposure scenarios:*

There are no exposure scenarios implemented for this product.

*Exposure limits:*

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

*Appropriate technical measures:*

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Apply standard precautions during use of the product. Avoid inhalation of vapours.

*Hygiene measures:*

Take off contaminated clothing and wash it before reuse.

*Measures to avoid environmental exposure:*

No specific requirements.

## Individual protection measures, such as personal protective equipment

*Generally:*

Use only UKCA marked protective equipment.

*Respiratory Equipment:*

| Work situation       | Type                                                                       | Class | Colour | Standards    |                                                                                       |
|----------------------|----------------------------------------------------------------------------|-------|--------|--------------|---------------------------------------------------------------------------------------|
| In case of emergency | Self contained breathing apparatus                                         |       |        | EN137, EN139 |  |
|                      | Respiratory protection is not needed in the event of adequate ventilation. |       |        |              |                                                                                       |

*Skin protection:*

| Recommended                       | Type/Category | Standards |  |
|-----------------------------------|---------------|-----------|--|
| No special when used as intended. | -             | -         |  |

*Hand protection:*

| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards |                                                                                     |
|----------|----------------------|--------------------------|-----------|-------------------------------------------------------------------------------------|
| Gloves   | -                    | -                        | EN374     |  |

*Eye protection:*

| Type           | Standards |                                                                                     |
|----------------|-----------|-------------------------------------------------------------------------------------|
| Safety glasses | EN166     |  |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

*Physical state:*

Liquid

*Colour:*

Testing not relevant or not possible due to the nature of the product.

*Odour / Odour threshold:*

Testing not relevant or not possible due to the nature of the product.

*pH:*

Testing not relevant or not possible due to the nature of the product.

*Density (g/cm<sup>3</sup>):*

Testing not relevant or not possible due to the nature of the product.

*Kinematic viscosity:*

Testing not relevant or not possible due to the nature of the product.

*Particle characteristics:*

Does not apply to liquids.

### Phase changes

*Melting point/Freezing point (°C):*

Testing not relevant or not possible due to the nature of the product.

*Softening point/range (waxes and pastes) (°C):*

Does not apply to liquids.

*Boiling point (°C):*

Testing not relevant or not possible due to the nature of the product.

*Vapour pressure:*

Testing not relevant or not possible due to the nature of the product.

*Relative vapour density:*

Testing not relevant or not possible due to the nature of the product.

*Decomposition temperature (°C):*

Testing not relevant or not possible due to the nature of the product.

### Data on fire and explosion hazards

*Flash point (°C):*

Testing not relevant or not possible due to the nature of the product.

*Flammability (°C):*

Testing not relevant or not possible due to the nature of the product.

*Auto-ignition temperature (°C):*

Testing not relevant or not possible due to the nature of the product.

*Lower and upper explosion limit (% v/v):*

Testing not relevant or not possible due to the nature of the product.

## **Solubility**

*Solubility in water:*

Testing not relevant or not possible due to the nature of the product.

*n-octanol/water coefficient (LogKow):*

Testing not relevant or not possible due to the nature of the product.

*Solubility in fat (g/L):*

Testing not relevant or not possible due to the nature of the product.

## **9.2. Other information**

*Oxidizing properties:*

Testing not relevant or not possible due to the nature of the product.

*Other physical and chemical parameters:*

No data available.

## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity**

No data available.

### **10.2. Chemical stability**

The product is stable under the conditions, noted in section 7 "Handling and storage".

### **10.3. Possibility of hazardous reactions**

Development of heat will occur upon polymerisation of larger quantities of the material

### **10.4. Conditions to avoid**

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

### **10.5. Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### **10.6. Hazardous decomposition products**

The product is not degraded when used as specified in section 1.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law**

#### **Acute toxicity**

|                    |                       |
|--------------------|-----------------------|
| Product/substance  | ethyl 2-cyanoacrylate |
| Species:           | Rat                   |
| Route of exposure: | Oral                  |
| Test:              | LD50                  |
| Result:            | >5 mg/kg              |

#### **Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory sensitisation**

Based on available data, the classification criteria are not met.

**Skin sensitisation**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

|                    |                       |
|--------------------|-----------------------|
| Product/substance  | ethyl 2-cyanoacrylate |
| Route of exposure: | Inhalation            |
| Conclusion:        | calculated: Hazardous |

May cause respiratory irritation.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2. Information on other hazards****Long term effects**

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

**▼ Endocrine disrupting properties**

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

**Other information**

None known.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**12.1. ▼ Toxicity**

Harmful to aquatic life with long lasting effects.

**12.2. ▼ Persistence and degradability**

|                   |                       |
|-------------------|-----------------------|
| Product/substance | ethyl 2-cyanoacrylate |
| Conclusion:       | Readily biodegradable |

### 12.3. ▼ Bioaccumulative potential

Product/substance ethyl 2-cyanoacrylate  
Conclusion: No potential for bioaccumulation

### 12.4. Mobility in soil

No data available.

### 12.5. ▼ Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### 12.6. ▼ Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

### 12.7. ▼ Other adverse effects

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

Product is covered by the regulations on hazardous waste.  
HP 4 - Irritant (skin irritation and eye damage)  
HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity  
Dispose of contents/container to an approved waste disposal plant.  
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

### EWC code

Not applicable.

### Specific labelling

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: TRANSPORT INFORMATION

|      | 14.1<br>UN / ID | 14.2<br>UN proper shipping name | 14.3<br>Hazard class(es) | 14.4<br>PG* | 14.5<br>Env** | Other<br>information: |
|------|-----------------|---------------------------------|--------------------------|-------------|---------------|-----------------------|
| ADR  | -               | -                               | -                        | -           | -             | -                     |
| IMDG | -               | -                               | -                        | -           | -             | -                     |
| IATA | -               | -                               | -                        | -           | -             | -                     |

\* Packing group

\*\* Environmental hazards

### Additional information

Not dangerous goods according to ADR, IATA and IMDG.

### 14.6. Special precautions for user

Not applicable.

#### 14.7. Maritime transport in bulk according to IMO instruments

No data available.

### SECTION 15: REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

*Restrictions for application:*

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

*Demands for specific education:*

No specific requirements.

*SEVESO - Categories / dangerous substances:*

Not applicable.

*Additional information:*

Not applicable.

*Sources:*

The Health and Safety at Work etc. Act 1974  
Regulations 2013.

Regulation (EU) No 1357/2014 of 18

December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

#### 15.2. Chemical safety assessment

No

### SECTION 16: OTHER INFORMATION

#### Full text of H-phrases as mentioned in section 3

H315, Causes skin irritation.

H319, Causes serious eye irritation.

H335, May cause respiratory irritation.

#### ▼ Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EuPCS = European Product Categorisation System  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

### **Additional information**

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

### **▼ The safety data sheet is validated by**

The Technical Manager

### **Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en